



5-Year Warranty



Hand-built in Webster, NY



Ashly EMS™



70V Selectable



100V Selectable



2 Ohm Stable



Neutrik® Components



Ashly Remote iPad Control



NXP3.04 NXP8004
NXP3.02 NXP8002
NXP1.54 NXP4004
NXP1.52 NXP4002



NXP MULTI-MODE AMPLIFIERS

POWER AMPLIFIERS W/ SELECTABLE OUTPUTS & PROTEA DSP

NX Multi-Mode Power Amplifiers are designed to meet the most demanding live sound environments and fixed audio installations anywhere—performance venues, stadiums, arenas, convention centers as well as schools, store fronts, and worship spaces.

Available as three separate amplifier series, NX offers 2 or 4-channel models as NX (base model series), NXE (networkable), or NXP (networkable + DSP).

All NXP Models Include:

Ethernet Control using Protea™ NE software. Also, serial data control by Ashly programmable remotes or third party controllers, aux preamp outputs, instant standby mode, preset recall, fault condition logic outputs, optional Dante™, CobraNet™, or AES3 digital audio capability (factory-installed).

Real-Time Clock with Event Scheduler. Assign automatic execution of selected functions and tasks. The event scheduler is programmed using PnES software and stored in the amplifier.

Ashly Remote Control via iPad® app. Use our free Ashly Remote app available for custom design of secure wireless control over a network.

32-bit SHARC DSP Processing at 48kHz or 96kHz Sample Rates. Comprehensive software control of digital signal processing, matrix and auto-mixing, built-in signal generator for test tone and noise-masking, swept output load impedance monitoring. Use Ashly Remote iPad control to select DSP functions including gain, mute, matrix, A/B source select, PEQ filter level, and meters.

FIR Filter-Ready. Our PnES software will load a speaker manufacturer's .fir or .csv file to achieve precision tuning.

Class-D Switching Amplifier Technology. NXP features a switch-mode power supply which automatically detects 110 – 120VAC or 220 – 240VAC operation and makes NXP one of the lightest in its class.

Multi-Mode Operation. Selectable Outputs on each channel allow you to choose the desired output mode. Set the DIP-switch configuration for Low Impedance (2, 4, and 8 Ohm), or Constant Voltage (70V or 100V) and you're set to go.

Energy Efficiency. NXP has power-saving Ashly EMS™ (Energy Management System) which provides an automatic sleep-mode drawing less than 1 Watt (defeatable).

Multiple Internal Power Supplies. NXP provides increased channel separation and reliability.

3000 & 1500 Watt Models

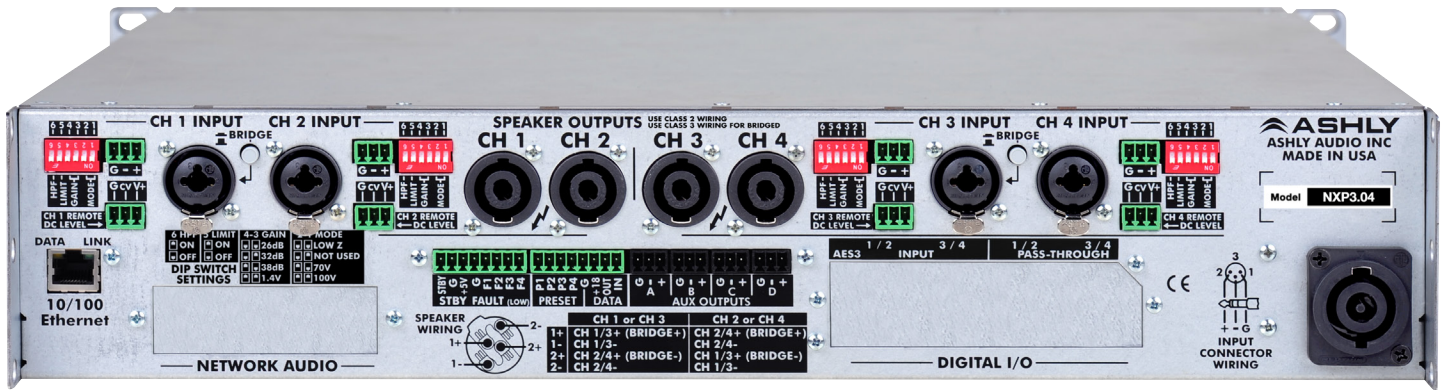
800 & 400 Watt Models

| nXp Series | nXp 3.04 | nXp 3.02 | nXp 1.54 | nXp 1.52 | nXp 8004 | nXp 8002 | nXp 4004 | nXp 4002 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| Channels | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 |
| <i>*Max Output Power: Measured in Watts, Per Channel, Low Impedance Output, All Channels Driven</i> | | | | | | | | |
| 2 Ohms | 3,000 | 3,000 | 1,500 | 1,500 | 800 | 800 | 400 | 400 |
| 4 Ohms | 2,000 | 2,000 | 1,500 | 1,500 | 800 | 800 | 400 | 400 |
| 8 Ohms | 1,250 | 1,250 | 1,250 | 1,250 | 800 | 800 | 400 | 400 |
| <i>*Low Impedance Output: Measured in Watts, Bridge Mode, All Channels Driven</i> | | | | | | | | |
| 4 Ohms | 6,000 | 6,000 | 3,000 | 3,000 | 1600 | 1600 | 800 | 800 |
| 8 Ohms | 4,000 | 4,000 | 3,000 | 3,000 | 1600 | 1600 | 800 | 800 |
| <i>*70V, 100V Constant Voltage Output: Measured in Watts, All Channels Driven</i> | | | | | | | | |
| 70V (per channel) | 2,450 | 2,450 | 1,500 | 1,500 | 800 | 800 | 400 | 400 |
| 100V (per channel) | 1,250 | 1,250 | 1,250 | 1,250 | 800 | 800 | 400 | 400 |
| <i>Total Power Draw, Measured in Watts: Total for all Channels</i> | | | | | | | | |
| Sleep Mode | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| Standby Mode | 70 | 40 | 70 | 40 | 40 | 25 | 40 | 25 |
| Idle (no signal) | 100 | 55 | 100 | 55 | 70 | 40 | 70 | 40 |
| <i>Current Draw: Measured in Amps, Total for all Channels, 120VAC, Divide by 2 for 240VAC</i> | | | | | | | | |
| Sleep Mode | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Standby Mode | 1.30 | 0.70 | 1.30 | 0.70 | 0.70 | 0.38 | 0.70 | 0.38 |
| Idle (no signal) | 1.85 | 1.00 | 1.85 | 1.00 | 1.30 | 0.70 | 1.30 | 0.70 |
| <i>Max Current Draw: Measured in Amps, Typical Input, All Channels Driven, Divide by 2 for 240VAC</i> | | | | | | | | |
| ½ Max Power @ 2 Ohms | 29.5 | 14.7 | 16.0 | 8.0 | 8.8 | 4.6 | 5.0 | 2.6 |
| <i>Thermal Dissipation: BTU/hr, Typical Input, Total for all Channels</i> | | | | | | | | |
| Sleep mode | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.4 |
| Standby mode | 238 | 136 | 238 | 136 | 136 | 85 | 136 | 85 |
| Idle (no signal) | 340 | 187 | 340 | 187 | 238 | 136 | 238 | 136 |
| ½ Max Power @ 2 Ohms | 2,720 | 1,360 | 1,700 | 850 | 970 | 495 | 595 | 305 |

* Measurements based on CEA-2006/490A, 20ms 1kHz 1% THD+N, 480ms 1kHz -20dB.

‡ <1W sleep mode can be defeated for applications that are subject to third-party performance standards that prohibit a sleep mode, including those used for Mass Notification and Emergency Communication Systems and those subject to ANSI/UL 2572.

Note: When making a true comparison of energy efficiency, one must look at the Thermal Dissipation (BTU/hr) numbers for a product. All other efficiency, i.e. "percentage" numbers are not standards based, and therefore may be marketing hype. Ashly Audio builds highly efficient Class-D amplification with SMPS that will equal or surpass the competition on BTU/hr thermal output (unused energy given off as heat). Please check our published BTU/hr specifications for more information.



Rear Panel Configuration (4-Channel nXp Shown)

NXP Additional Features:

- Selectable 80Hz Hi-pass filter, limiter, and input gain per channel, via rear panel
- Remote DC level control per channel
- Extensive protection circuitry, continuously variable cooling fans
- Ethernet port for software control and monitoring of amplifier functions, with front panel COM activity LED
- Serial data port available for Ashly WR-5 and RD-8C programmable remote control (optional RS-232 converter INA-1 available for third party controllers)
- Instant Standby Mode, 30% reduction in idle power consumption, triggered by contact closure, software control, or event scheduler
- Preset recall via contact closure, software control, remote control, or event scheduler
- Programmable power-on delay
- Aux preamp line outputs for driving other amplifiers
- Fault condition logic outputs, per channel
- Comprehensive software controlled DSP including dynamics, gain, equalization, matrix mixer, crossover, delay, and metering.
- Additional iPad control of select DSP functions including gain, matrix, A/B source select, PEQ filter level, and meters
- Precision swept load impedance monitoring of individual amplifier channels for remote diagnosis of speaker problems
- Signal generator function for test and noise masking
- Remote gain and zone control with neWR-5 and FR-8/FR-16 programmable networked remotes
- Neutrik® Combo XLR – 1/4" TRS jack plus Euroblock input connectors
- Neutrik® speakON® twist locking loudspeaker connectors
- Neutrik® powerCON® detachable AC mains connector
- Safety/Compliance: cTUVus, CE, FCC, RoHS

| Specifications | Notes: 0dBu = 0.775 VRMS |
|--|--|
| Voltage Gain | Selectable at 26dB, 32dB, 38dB, or 1.4V |
| Damping Factor | >250 (8 Ohms load <1kHz) |
| Input High Pass Filter | 80Hz 2nd order |
| Distortion (SMPTE, typical) | <0.5% |
| Distortion (THD-N, typical) | <0.5% (8 Ohms, 10dB below rated power, 20Hz–20kHz) |
| Channel Separation | -75dB (dB from full output, 1kHz) |
| Signal-to-Noise (20Hz–20kHz, unweighted) | >114dB (all 3.0x models) >111dB (all 1.5x models) >108dB (all 800x models) >105dB (all 400x models) |
| Frequency Response | 20Hz-20kHz, +/-0.05dB |
| Balanced Input Connector | Euroblock 3.5mm, 1/4" TRS & XLR Combo jack |
| Input Impedance | 10k Ohms |
| Maximum Input Level | +21dBu |
| Speaker Output Connector | Neutrik® speakON® |
| Control Network | Compatible w/ standard 100MB Ethernet |
| AUX Output Connector | Balanced Euroblock 3.5mm |
| AUX Output Maximum Level | +21dBu |
| Remote Standby Contact Closure | Euroblock 3.5mm, close contact to GND for standby mode |
| Preset Recall Contact Closure | Euroblock 3.5mm, close contact to GND for preset 1-4 recall |
| Data Connection | Euroblock 3.5mm - Gnd, +18V, In, Out |
| Fault Condition Logic Outputs | Fault indicated by loss of 1Hz "heartbeat" pulse signal |
| Remote DC Level Control | Euroblock 3.5mm - Gnd, CV, V+ per input |
| Attenuators (per channel) | Front panel, software, offset link group, and remote. Fully off = Mute |
| Amplifier Protection | Inrush current limitation, temperature monitoring, output over-power protection, mains fuses |
| Cooling | Continuously variable temperature controlled axial fan(s) |
| Environmental | 32–113 deg F, (0–45 deg, C) (noncondensing) |

| Power Requirements (50 – 60Hz) | | |
|----------------------------------|--|--------------|
| Nominal (Automatic Sensing SMPS) | 110 – 120VAC | 220 – 240VAC |
| Operating Range | 70 – 135VAC | 140 – 270VAC |
| Minimum power-up | 85VAC | 170VAC |
| Power Cable Connector | 20A powerCON® (32A powerCON® 3.04 model only) | |

| Weights and Dimensions | |
|------------------------------|--|
| Unit Weight | 1.54/3.04: 28.7lbs (13kg) 1.52/3.02: 22.7lbs (10.3kg) 4002/8002: 22.2lbs (10.1kg) 4004/8004: 25.9lbs (11.7kg) |
| Shipping Weight | 1.54/3.04: 35.2lbs (16kg) 1.52/3.02: 29.2lbs (13.3kg) 4002/8002: 28.7lbs (13.1kg) 4004/8004: 32.4lbs (14.8kg) |
| Unit Dimensions (all models) | 19"W x 3.5"H x 16.84"D (483mm x 89mm x 428mm) |
| Shipping Dimensions | 24.5"W x 22"H x 5.25"D (622mm x 559mm x 133mm) |

| Front Panel LED Indicators | |
|----------------------------|--|
| POWER (white) | Switch: On, Off, Standby (flashing) |
| PROTECT (red) | On (fault condition or shut down), Off |
| SLEEP (blue) | On, amplifier is asleep from audio inactivity |
| DISABLE (yellow) | On, power switch & front panel attenuators are disabled |
| COM (green) | On, for Ethernet data or Device ID |
| Per Channel | |
| CLIP/MUTE (red) | Clip @ 1dB below full output / Mute |
| SIGNAL (green) | -18dB below rated output |
| CURRENT (green) | Proportional to output |
| TEMP (yellow) | On dim at 90% max operating temperature, full bright + protect at 100% |
| BRIDGE (green) | On, Off |

| Remote Accessories | |
|--------------------|---|
| WR-1 | 2-Channel Level Control |
| WR-1.5 | Level and Preset Recall |
| WR-2 | Four-Position Preset Recall Switch |
| WR-5 | Programmable Button Controller |
| neWR-5 | Programmable Network Button Controller |
| FR-8 | 8-Channel Network Fader Remote |
| FR-16 | 16-Channel Network Fader Remote |
| RD/RW-8C | Serial Data Fader Remote |
| Ashly Remote | Remote Control Application for Apple® iPad® |

| Digital Input Options (Factory installed) | |
|---|--|
| Dante® Digital Interface <small>(NXE, NXP only)</small> <small>part number: OPDante</small> | |
| CobraNet® Digital Interface <small>(NXE, NXP only)</small> <small>part number: CNM-2</small> | |
| AES3 2-ch input w/ AES3 pass-thru <small>(2-ch models only)</small> <small>part number: OPAES2</small> | |
| AES3 4-ch input w/ AES3 pass-thru <small>(4-ch models only)</small> <small>part number: OPAES4</small> | |

Protēa™

DIGITAL SIGNAL PROCESSING FOR NXP AMPLIFIERS

Protea is compatible with Microsoft® Windows 10, 8, 7 (Vista/XP) 32 & 64 bit systems.

Audio professionals find our Protea™ DSP to be very intuitive and easy to navigate—and you will too. No need to attend a one-week training class away from home to learn our software. Common sense layout of controls and features, on-line help, or a visit to the Technical Support page on our website provides answers to all of your questions. Protea™ DSP is designed for the nXp Amplifier, Pema, ne Series Amplifiers and Processors, the ne24.24M Matrix Processor, and Protea System Processors.



| Protea™ DSP Specifications for nXp Amplifiers | |
|---|--|
| All DSP functions can be linked to 1 of 16 link groups | |
| Input Source Selection | |
| Input Source Select Options | Analog, Auto (Net, AES3, Analog) |
| Brick Wall Limiter | |
| Threshold | -20dBu to +20dBu |
| Ratio | Infinite |
| Attack | 0.2mS/dB to 50 mS/dB |
| Release | 5mS/dB to 1000mS/dB |
| Compressor | |
| Threshold | -20dBu to +20dBu |
| Ratio | 1.2:1 to infinite |
| Attack | 0.2mS to 50mS |
| Release | 5mS/dB to 1000mS/dB |
| Detector | Peak/Average |
| Attenuation Bus | 2 available |
| Metering | In, Out, Attenuation, Graphical |
| Autoleveler Controls | |
| Target Level | -40dBu to +20dBu |
| Action | Gentle, Normal, Aggressive, User-Defined |
| Maximum Gain | 0dB to +22dB |
| Metering | Input, Gain, Attenuation |
| Ratio | 1.2:1 to 10:1 |
| Threshold Below Target | -30dB to 0dB |
| Gain Increase/Decrease Rate | 5mS/dB to 1000mS/dB |
| Hold Time | 0-6 Sec |
| Ambient Noise Compensation: Output Only | |
| Max Gain | -20dB to +20dB |
| Min/Base Gain | -40dB to +20dB |
| Gain Change Rate | 0.2S/dB to 20S/dB |
| Link Group | 16 Available |
| ANC Input Channel | 1-2 or 1-4 |
| Noise Threshold | -40dBu to +20dBu |
| Program/Ambient Gain Ratio | 0.3:1 to 3:1 |
| Metering | Input level, Attenuation, Average noise |
| Ducking: High/Low Priority, Trigger, Filibuster, Ducked Program | |
| Trigger Threshold | -80dBu to +20dBu |
| Ducking Release | 5mS/dB to 1000mS/dB |
| Ducking Depth | 0dB to -30dB, -∞ |
| Enable Ducking at Matrix Mixer | Yes |
| Metering | Input |

| Gate | |
|--|--------------------------------------|
| Threshold | -80dBu to +20dBu |
| Range | off, 100dB to 0dB |
| Attack | 0.2mS/dB to 50mS/dB |
| Release | 5mS/dB to 1000mS/dB |
| Metering | Key Signal, Gate LED, Graphical |
| Advanced Gate Controls | |
| Key Engage Enable | Yes |
| Key Frequency | 20Hz–20kHz |
| Key Bandwidth | 0.016 to 3.995 Octave |
| Gain | |
| Gain (with/without VCA) | -50dB to +12dB, Off, Polarity Invert |
| Digital VCA Groups | 4 Available |
| Remote RD8C Gain | Enable (per channel), 0dB to -∞ |
| WR-5 (neWR-5) Remote Gain | 0 to -50dB, Mute |
| EQ: FIR Filter (Output only, 48kHz only, 2–384 Taps) | |
| File Type | .csv, .fir |
| EQ: 31-Band | |
| Filter Type | Constant Q or Proportional |
| Bandwidth | 0.499oct to 0.25oct |
| EQ: Parametric 2,4,6, or 10 Band | |
| Frequency | 20–20kHz |
| Level | -30dB to +15dB |
| Q Value | 0.016 to 3.995 Octave |
| EQ: Hi/Low Shelf 6/12 dB/Oct | |
| Frequency | 20Hz–20kHz |
| Level | -15dB to +15dB |
| EQ: All Pass | |
| Frequency | 20Hz–20kHz |
| EQ: Variable Q HP/LP | |
| Frequency | 20Hz–20kHz |
| Q Value | 3.047–0.267 |
| EQ: Notch/Bandpass | |
| Frequency | 20Hz–20kHz |
| Q Value | 92.436 to 0.267 |
| Feedback Suppressor: Inputs Only, 48kHz only | |
| Filters | 12 |
| In/Out (per filter) | Yes |
| Lock (per filter) and Global Lock | Yes |
| Filter Modes | Float, Restricted, Manual |
| Filter Type | Notch, Parametric |

| Filter Frequency Range | 20Hz–20kHz |
|---|--------------------------|
| Notch Filter | -∞ |
| Parametric Filter | +15dB to -30dB |
| Filter Bandwidth | 0.016 to 3.995 Octave |
| Detector Sensitivity | 5 levels |
| Float Time | 5 minutes to 24 hours |
| Crossover: 2 Way, 3 Way, 4 Way Crossover & High Pass/Low Pass Filters | |
| Bessel & Butterworth Filters | 12/18/24/48 dB/oct |
| Linkwitz-Riley Filter | 12/24/48 dB/oct |
| Frequency | Off, 20Hz–20kHz |
| Delay: @ 48kHz Sampling Rate (Input Time, Distance & Temperature) | |
| Speaker Delay | 0–21mS |
| Delay | 0–682mS |
| Delay: @ 96kHz Sampling Rate (Input Time, Distance & Temperature) | |
| Speaker Delay | 0–10.6mS |
| Delay | 0–341mS |
| Audio Metering Tool | |
| Range | -60dBu to +20dBu |
| Increments | 1dB |
| Peak Hold Indicator | Yes |
| Signal Generator Tool: Pink Noise, White noise, Sine Wave | |
| Signal Level | Off, -50dBu to +20dBu |
| Sine Wave Frequency | 20Hz–12KHz |
| Matrix Mixer | |
| Gain (0.5dB increments) | Off, -50 to +12dB |
| Mute | Per Channel |
| Auto-Mixer Enabled | Per Channel |
| Global Auto-Mixer Response | 0.01Sec to 2Sec |
| Enable Ducking at Mixer | Yes |
| Ducking LED | Per Channel (if enabled) |
| Metering | Level, Auto-mixer Level |
| Processors | |
| Input A/D, Output D/A | 24-Bit |
| DSP Processors | 32-Bit Floating Point |
| Sample Rates | 48kHz, 96kHz |
| Propagation Delay @ 48kHz: | 1.42mS |
| Propagation Delay @ 96kHz: | 0.71mS |



NXP SERIES

ARCHITECT & ENGINEERING SPECS

nXp3.04

The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 3,000W per channel at Low Z, 2,450W per channel in 70V mode, and 1,250W in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <28.7 lbs (13kg), measure 19”W x 3.5”H x 16.8”D (483mm x 89mm x 428mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nXp3.04**.

nXp3.02

The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 3,000W per channel at Low Z, 2,450W per channel in 70V mode, and 1,250W in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <22.7 lbs (10.3kg), measure 19”W x 3.5”H x 16.8”D (483mm x 89mm x 428mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nXp3.02**.

nXp1.54

The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 1,500W per channel at Low Z and 70V modes, and 1,250W in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <22.7 lbs (10.3kg), measure 19”W x 3.5”H x 16.8”D (483mm x 89mm x 428mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nXp1.54**.

nXp1.52

The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 1,500W per channel at Low Z and 70V modes, and 1,250W in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <22.7 lbs (10.3kg), measure 19”W x 3.5”H x 16.8”D (483mm x 89mm x 428mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nXp1.52**.



NXP SERIES

ARCHITECT & ENGINEERING SPECS

nXp8004

The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 800W per channel at Low Z, 70V, and 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <25.9 lbs (11.7kg), measure 19"W x 3.5"H x 16.8"D (483mm x 89mm x 428mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXp8004.

nXp8002

The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 800W per channel at Low Z, 70V, and 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <22.2 lbs (10.1kg), measure 19"W x 3.5"H x 16.8"D (483mm x 89mm x 428mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXp8002.

nXp4004

The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 400W per channel at Low Z, 70V, and 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <25.9 lbs (11.7kg), measure 19"W x 3.5"H x 16.8"D (483mm x 89mm x 428mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXp4004.

nXp4002

The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 400W per channel at Low Z, 70V, and 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability. The unit shall have 32-bit DSP processing at 48kHz or 96kHz sampling rate. DSP functions shall include swept load impedance, gain, dynamics including autoleveler and ambient noise compensation, equalization including graphic, parametric, feedback suppressor, and FIR filters, a matrix mixer including automixing, crossover, delay, and a signal generator. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <22.2 lbs (10.1kg), measure 19"W x 3.5"H x 16.8"D (483mm x 89mm x 428mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXp4002.